



Receipt Date: 10/17/2005

10528894 - GAU: 1631

FORM - 1449

SHEET 1 OF 3

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

| | |
|-----------------------|------------------|
| ATTY. DOCKET NO. | SERIAL NO. |
| 2001B101B | 10/528,894 |
| APPLICANT | |
| Robert L. LONG et al. | |
| FILING DATE | GROUP |
| 05/08/2003 | Not Yet Assigned |

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|-------------------|-----|-----------------|------------|---------------------|-------|----------|----------------------------|
| /RSN/ | AA | 3,725,378 | 04/03/1973 | Chamberlin | | | |
| | AB | 3,779,712 | 12/18/1973 | Calvert et al. | | | |
| | AC | 4,175,169 | 11/20/1979 | Beals et al. | | | |
| | AD | 4,182,810 | 01/08/1980 | Willcox | | | |
| | AE | 4,243,619 | 01/06/1981 | Fraser et al. | | | |
| | AF | 4,469,853 | 09/04/1984 | Mori | | | |
| | AG | 4,543,399 | 09/24/1985 | Jenkins, III et al. | | | |
| | AH | 4,588,790 | 05/13/1986 | Jenkins, III et al. | | | |
| | AI | 4,620,049 | 10/28/1986 | Schmidt et al. | | | |
| | AJ | 4,621,952 | 11/11/1986 | Aronson | | | |
| | AK | 4,888,704 | 12/19/1989 | Topliss et al. | | | |
| | AL | 5,096,634 | 03/17/1992 | Tsadares et al. | | | |
| | AM | 5,121,337 | 06/09/1992 | Brown | | | |
| | AN | 5,151,474 | 09/29/1992 | Lange et al. | | | |
| | AO | 5,202,395 | 04/13/1993 | Chambon | | | |
| | AP | 5,270,274 | 12/14/1993 | Hashiguchi et al. | | | |
| | AQ | 5,274,056 | 12/28/1993 | McDaniel et al. | | | |
| | AR | 5,352,749 | 10/04/1994 | DeChellis et al. | | | |
| | AS | 5,405,922 | 04/11/1995 | DeChellis et al. | | | |
| | AT | 5,436,304 | 07/25/1995 | Griffin et al. | | | |
| | AU | 5,462,999 | 10/31/1995 | Griffin et al. | | | |
| | AV | 5,589,555 | 12/31/1996 | Zboril et al. | | | |
| | AW | 5,638,172 | 06/10/1997 | Alsmeyer et al. | | | |
| | AX | 5,675,253 | 10/07/1997 | Smith et al. | | | |
| | AY | 5,678,751 | 10/28/1997 | Buchanan et al. | | | |
| | AZ | 5,682,309 | 10/28/1997 | Bartusiak et al. | | | |
| | AAA | 5,696,213 | 12/09/1997 | Schiffino et al. | | | |

EXAMINER

/Russell S. Negin/

DATE CONSIDERED

02/19/2009

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant

FORM - 1449

SHEET 2 OF 3

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

SERIAL NO.

2001B101B

10/528,894

APPLICANT

Robert L. LONG et al.

FILING DATE

GROUP

05/08/2003

Not Yet Assigned

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|--------------------|------------|------------------|-------|----------|-------------------------------|
| /RSN/ | AA | 5,892,228 | 04/06/1999 | Cooper et al. | | | |
| | AB | 5,999,255 | 12/07/1999 | Dupee et al. | | | |
| | AC | 6,072,576 | 06/06/2000 | McDonald et al. | | | |
| | AD | 6,144,897 | 11/07/2000 | Sellers | | | |
| | AE | 6,204,664 | 03/20/2001 | Sardashti et al. | | | |
| | AF | 6,218,484 | 04/17/2001 | Brown et al. | | | |
| | AG | 6,405,579 | 06/18/2002 | Tjahjadi et al. | | | |
| | AH | 6,479,597 | 11/12/2002 | Long et al. | | | |
| | AI | 6,673,878 | 01/06/2004 | Donck | | | |
| | AJ | 2004/0233425 | 11/25/2004 | Long et al. | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | PUBL. DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|-------|---------------|------------------------|-----------------------|-------------------------------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| | AK | EP 238 796 | 20.09.87 | Europe | | | | |
| | AL | EP 406 805 | 12.12.05 | Europe | | | | |
| /RSN/ | AM | EP 561 78 B1 | 23.04.97 | Europe | | | | |
| | AN | JP 02038841 | 1990.02.08 | Japan (w/Abstract) | | | | |
| /RSN/ | AO | WO 94/21962 | 29.09.94 | PCT | | | | |
| | AP | WO 96/41822 | 27.12.96 | PCT | | | | |
| | AQ | WO 98/08066 | 26.02.98 | PCT | | | | |
| | AR | WO 99/01750 | 14.01.99 | PCT | | | | |
| | AS | WO 01/09201 | 08.02.01 | PCT | | | | |
| | AT | WO 01/09203 | 08/02/01 | PCT | | | | |

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

| | | |
|-------|----|---|
| /RSN/ | AU | K.R. Beebe et al., "An Introduction to Multivariate Calibration and Analysis," Analytical Chemistry, Vol. 59, No. 17, pp.1007A-1017A, Sept. 1, 1987. |
| /RSN/ | AV | J. M. Tedesco et al., "Calibration of dispersive Raman Process Analyzers," The Society Of Photo-Optical Instrumentation Engineers, Vol. 3537, pp. 200-212, 1999. |
| /RSN/ | AW | G.A. Bakken et al., "Examination of Criteria for Local Model Principal Component Regression," Society for Applied Spectroscopy, Vol. 51, No. 12, pp. 1814-1822, 1997. |

EXAMINER

/Russell S. Negin/

DATE CONSIDERED

02/19/2009

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next comment to applicant



Receipt Date: 10/17/2005

10528894 - GAU: 1631

FORM - 1449

SHEET 3 OF 3

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

| | |
|-----------------------|------------------|
| ATTY. DOCKET NO. | SERIAL NO. |
| 2001B101B | 10/528,894 |
| APPLICANT | |
| Robert L. LONG et al. | |
| FILING DATE | GROUP |
| 05/08/2003 | Not Yet Assigned |

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

| | | |
|-------|----|---|
| /RSN/ | AA | P. Erlich et al., "Fundamentals of the Free-Radical Polymerization of Ethylene," Advanced Polymer Science, Vol. 7, pp. 386-448, 1970. |
| | AB | M.L. Myrick et al., "In Situ Fiber-Optic Raman Spectroscopy of Organic Chemistry in a Supercritical Water Reactor," Journal of Raman Spectroscopy, Vol. 25, pp. 59-65, 1994. |
| | AC | T. Naes et al., "Locally Weighted Regression and Scatter Correction for Near-Infrared Reflectance Data," Analytical Chemistry, Vol. 62, pp. 664-673, 1990. |
| | AD | G.G. Ardell et al., "Model Prediction for Reactor Control," Chemical Engineering Progress, American Institute of Chemical Engineers, Vol. 79, No. 6, pp. 77-83, June 1, 1983. |
| | AE | J.J. Zacca et al., "Modelling of the Liquid Phase Polymerization of Olefins in Loop reactors," Chemical Engineering Science, Vol. 48, No. 22, pp. 3743-3765, 1993. |
| | AF | L.P. Russo et al., "Moving-Horizon State Estimation Applied to an Industrial Polymereization Process," American Control Conf. Proc., San Diego, CA, 1999. |
| | AG | H. Martens et al., "Multivariate Calibration," Wiley & Sons Ltd., pp. viii-ix, 1989. |
| | AH | Multivariate Data Analysis for Windows - Version 3.0, excerpted from Pirouette Software Manual, Exploratory Analysis: Principal Component Analysis, pp. 5-13 through 5-40, 1985-2000. |
| | AI | E.P.C. Lai et al., "Noninvasive Spectroscopic Detection of Bulk Polymerization by Stimulated Raman Scattering," Applied Spectroscopy, Vol. 48, No. 8, 1994. |
| | AJ | S. Sekulic et al., "Nonlinear Multivariate Calibration Methods in Analytical Chemistry," Analytical Chemistry, Vol. 65, No. 19, pp. 835A-845A, Oct. 1, 1993. |
| | AK | E.D. Lipp et al., "On-Line Monitoring Of Chlorosilane Streams By Raman Spectroscopy," Reprinted from Applied Spectroscopy, Vol. 52, No. 1, January, 1998. |
| | AL | D.R. Battiste et al., "On-Line Raman Analysis of Ethylene and Hexene in the Phillips 1-Hexene and Polyethylene Processes," Gulf Coast Conference presentation (Abstract) |
| | AM | M.J. Pelletier et al., "Optical fibers enable Raman instruments to analyze industrial process problems quickly and accurately," Raman Spectroscopy—Keeps Industry Under Control, Reprint: Photonics Spectra, 4 pgs., October, 1997. |
| | AN | V. Centner et al., "Optimization in Locally Weighted Regression," Analytical Chemistry, Vol. 70, No. 19, pp. 4206-4211, Oct. 1, 1998. |
| | AO | "Principal Components Analysis," excerpted from PLS_Toolbox, Version 2.0 Data Analysis Manual, Eigenvector Research, Inc., pp. 32-34, 1998. |
| ↓ | AP | L. Markwort et al., "Raman Imaging of Heterogeneous Polymers: A Comparison of Global versus Point Illumination," Applied Spectroscopy, Vol. 49, No. 10, pp. 1411-1430, 1995. |
| | AQ | I. Modric et al., "Raman- und Infrarotspektren isotaktischer Polyallyldiethylenes," Colloid & Polymer Sci., Vol. 254, pp. 342-347, 1976. |
| /RSN/ | AR | M.G. Hansen et al., "Real-Time Monitoring of Industrial Polymers," Raman Review; pp. 1-4, 3/98. |
| /RSN/ | AS | S.E. Nave "Rugged Fiber Optic Probes and Sampling Systems for Remote Chemical Analysis Via the Raman Technique," ISA, Paper #96-042, pp. 453-467, 1996. |
| /RSN/ | AT | M.J. Pelletier et al., "Shining a Light on Wet Process Control," Semiconductor International, 4 pages, March, 1996. |
| /RSN/ | AU | K.P.J. Williams et al., "Use of Micro Raman Spectroscopy for the Quantitative Determination of Polyethylene Density Using Partial Least-Squares Calibration," Journal of Raman Spectroscopy, Vol. 26, pp. 427-433, 1995. |

EXAMINER

/Russell S. Negin/

DATE CONSIDERED

02/19/2009

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next comment to applicant